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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/720,116

11/25/2003

Mihai Albulet

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EXAMINER

DOGAN, ERIN L

ART UNIT

PAPER NUMBER

2115

DATE MAILED: 04/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/720,116	<b>Applicant(s)</b> ALBULET, MIHAI	
	<b>Examiner</b> Erin L. Dogan	<b>Art Unit</b> 2115	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 25 November 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2/27/04, 11/25/03</u> | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. Claims 1-21 are pending in the application.

#### ***Claim Rejections - 35 USC § 102***

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Hulvey (US 2003/0197488 A1).

3. For Claim 1, Hulvey discloses a device comprising:

- a battery power source (Figure 2, [204]);

- a radio transceiver powered by the battery and having components for transmission and receipt of data (Figure 2, [216]);

- a memory having instructions stored thereon (Figure 2, [208]); and

- a controller coupled to the transceiver and to the memory and configured execute the instructions so as to(Figure 2, [202]):

- create, via the transceiver, wireless connections with remote devices in any of a plurality of connection configurations([0032], lines 6-10),

- detect the presence, in a wireless transmission from a remote device, of one or more parameters identifying one of the plurality of configurations, and implement, based on the configuration

identified, one of a plurality of power management algorithms  
([0068], lines 1-5) .

4. For Claim 2, Hulvey discloses a device wherein the controller is configured to detect the presence of one or more parameters by determining if a wireless connection with the remote device has at least one parameter corresponding to an acceptably fast re-connection procedure ([0070]).

5. For Claim 3, Hulvey discloses a device wherein the controller is configured to implement, upon determining the presence of the at least one parameter, a power management algorithm in which the transceiver is deactivated after a first period of device inactivity, and implement, upon determining the absence of the at least one parameter, a power management algorithm in which the transceiver is deactivated after a second period of device inactivity, the second period being longer than the first period ([0068], Figure 9, [0087], lines 7-20).

6. For Claim 4, Hulvey discloses wherein the controller is configured such that the device is inactive if the device is not being used to generate or transmit data based on input from a human user of the device ([0058], lines 6-8, [0059]).

7. For Claim 5, Hulvey discloses a device wherein the controller is further configured detect the presence of one or more parameters at the time of establishing a

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wireless connection with a remote device (Figure 11, [0065], lines 19-24, [0066], lines 5-8).

8. For Claim 6, Hulvey discloses a device wherein the plurality of power management algorithms comprises three or more power management algorithms ([0065], lines 1-12, 19-23, [0068], lines 1-5).

9. For Claim 7, Hulvey discloses a device wherein the device is a computer input device ([0010]).

10. For Claim 8, Hulvey discloses a device wherein the device is a computer mouse ([0032]).

11. For Claim 9, Hulvey discloses a device wherein the device is a computer keyboard ([0033]).

12. For Claim 10, Hulvey discloses a method for automatically selecting a power management algorithm in a battery-powered wireless device capable of creating wireless connections with a remote device in any of a plurality of connection configurations, comprising:

establishing a wireless connection with a remote device ([0065], lines 1-5);

determining wireless communication features supported by the remote device

([0065], lines 1-12, 19-23);

implementing a first power management algorithm if the remote device supports a first communication feature ([0087], lines 7-20); and

implementing a second power management algorithm if the remote device does not support the first feature ([0087], lines 7-20).

13. For Claim 11, Hulvey discloses a method wherein the first communication feature comprises support for an acceptably fast re-connection procedure ([0070]).

14. For Claim 12, Hulvey discloses a method wherein the first power management algorithm comprises deactivating a transceiver after a first period of wireless device inactivity, and the second power management algorithm comprises deactivating the transceiver after a second period of wireless device inactivity, the second period being longer than the first period ([0068], Figure 9, [0087], lines 7-20).

15. For Claim 13, Hulvey discloses a method wherein the wireless device is inactive if the wireless device is not being used to generate or transmit data based on input from a human user ([0058], lines 6-8, [0059]).

16. For Claim 14, Hulvey discloses a method of claim 10, further comprising:

implementing a third power management algorithm if the remote device does not support the first feature but supports a second feature (Figure 11, [0065], lines 19-24, [0066], lines 5-8).

17. For Claim 15, Hulvey discloses a method wherein said determining wireless communication features comprises determining wireless communication features at the time of establishing a wireless connection with a remote device ([0065], lines 1-12, 19-23, [0068], lines 1-5).

18. For Claim 16, Hulvey discloses a machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a processor, cause the processor to perform steps comprising:

establishing, from a battery-powered wireless device capable of creating wireless connections with a remote device in any of a plurality of connection configurations, a wireless connection with a remote device ([0065], lines 1-5); determining wireless communication features supported by the remote device; implementing a first power management algorithm if the remote device supports a first communication feature ([0087], lines 7-20); and implementing a second power management algorithm if the remote device does not support the first feature ([0087], lines 7-20).

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19. For Claim 17, Hulvey discloses a machine-readable medium wherein the first communication feature comprises support for all acceptably fast re-connection procedure .

20. For Claim 18, Hulvey discloses a machine-readable medium wherein the first power management algorithm comprises deactivating a transceiver after a first period of wireless device inactivity, and the second power management algorithm comprises deactivating the transceiver after a second period of wireless device inactivity, the second period being longer than the first period ([0068], Figure 9, [0087], lines 7-20).

21. For Claim 19, Hulvey discloses a machine-readable medium wherein the wireless device is inactive if the wireless device is not being used to generate or transmit data based on input from a human user ([0058], lines 6-8, [0059]).

22. For Claim 20, Hulvey discloses a machine-readable medium comprising further sequences of instructions which cause the processor to perform steps comprising: implementing a third power management algorithm if the remote device does not support the first feature but supports a second feature (Figure 11, [0065], lines 19-24, [0066], lines 5-8).



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23. For Claim 21, Hulvey discloses a machine-readable medium wherein said determining wireless communication features comprises determining wireless communication features at the time of establishing a wireless communication with a remote device ([0065], lines 1-12, 19-23, [0068], lines 1-5).

24. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erin L. Dogan whose telephone number is 571-272-1412. The examiner can normally be reached on Mon-Fri 8:00-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on (571)272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Erin Dogan  
Patent Examiner  
Art Unit 2115



**CHUN CAO**  
**PRIMARY EXAMINER**